## LISTING OF CLAIMS:

This listing of claims provided below will replace all prior versions and listings of claims in the application.

(Currently amended) A method for treating a host infected with a togavirus or a
coronavirus or a herpes virus, comprising administering an anti-viral effective amount of a
compound, or a pharmaceutically acceptable salt or prodrug thereof, having a structure of
Formula I:

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_3$ 

 $\label{eq:wherein: R1 is -NHC(O)Y, where Y is C1-C22 alkyl, C2-C22 alkenyl, or C2-C22 alkynyl; \\ R2 is -OX, where X is C1-C22 alkyl, C2-C22 alkenyl, C2-C22 alkynyl; and \\ R3 is phosphocholine;$ 

optionally with a pharmaceutically acceptable carrier or diluent.

- (Withdrawn) The method of claim 1, wherein
  Y is C<sub>1</sub>-C<sub>14</sub> alkyl, C<sub>2</sub>-C<sub>14</sub> alkenyl, or C<sub>2</sub>-C<sub>14</sub> alkynyl; and
  X is C<sub>1</sub>-C<sub>14</sub> alkyl, C<sub>2</sub>-C<sub>14</sub> alkenyl, or C<sub>2</sub>-C<sub>14</sub> alkynyl.
- (Withdrawn) The method of claim 1 wherein:
   Y is —C<sub>12</sub>H<sub>23</sub>, —C<sub>10</sub>H<sub>21</sub> or —C<sub>9</sub>H<sub>19</sub>; and
   X is —CH<sub>2</sub>CH<sub>3</sub>, —(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>, —(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>, or —CH<sub>10</sub>CH<sub>21</sub>.
- $\label{eq:withdrawn} 4. \qquad \text{(Withdrawn)} \ \ \text{The method of claim 1, wherein Y is $-\!\!\!\!-C_{11}H_{23}$ and X is $C_1\text{-}C_5$ alkyl.}$

- 5. (Withdrawn) The method of claim 1, wherein Y is  $C_9H_{19}$  and X is  $C_9$ - $C_{11}$  alkyl.
  - 6. (Withdrawn) The method of claim 1, wherein the compound is:

3-dodecanamido-2-ethoxypropyl-1-phosphocholine;

3-decanamido-2-ethoxypropyl-1-phosphocholine;

3-decanamido-2-decyloxypropyl-1-phosphocholine;

3-dodecanamido-2-octyloxypropyl-1-phosphocholine;

3-dodecanamido-2-dodecyloxy-1-phosphocholine; or

3-dodecanamido-2-butyloxypropyl-1-phosphocholine;

or a combination thereof.

 (Previously presented) The method of claim 1, wherein the virus is a coronavirus. (Previously presented) The method of claim 7, wherein the coronavirus is SARS-CoV.

Claims 9-11. (Cancelled).

- 12. (Previously presented) The method of claim 1, wherein the host is a mammal.
- 13. (Previously presented) The method of claim 1, wherein the host is a human.
- 14. (Withdrawn) A method for treating a host infected with a togavirus, herpes virus or coronavirus, comprising administering an anti-viral effective amount of a compound, or a pharmaceutically acceptable salt or prodrug thereof, having a structure of Formula II:

$$\begin{array}{c} \text{CH}_2-X_1-R_{21} \\ \downarrow \\ \text{CH}-O-R_{22} & \text{O} \\ \downarrow \\ \text{CH}_2-O-P-O-M-N^*(R_{23})(R_{24})(R_{25}) \\ \downarrow \\ \text{O} \end{array}$$

wherein:

M is C2-C4 alkyl;

 $R_{21}$  is  $-C_1$ - $C_{20}$  straight chain alkyl,  $-C_2$ - $C_{20}$  straight chain alkylene containing not more than four double bonds, or aryl;

 $R_{22}$  is  $-C_1$ - $C_{20}$  straight chain alkyl,  $-C_2$ - $C_{20}$  straight chain alkylene containing not more than four double bonds, or arvl; and

 $R_{23}$ ,  $R_{24}$ , and  $R_{25}$  are each independently either hydrogen, methyl, ethyl, propyl, or isopropyl;

optionally with a pharmaceutically acceptable carrier or diluent.

15. (Withdrawn) The method of claim 14 wherein:

R<sub>21</sub> is C<sub>1</sub>-C<sub>16</sub> straight chain alkyl, or —C<sub>2</sub>-C<sub>16</sub> straight chain alkylene containing not more than one double bond:

R<sub>22</sub> is C<sub>1</sub>-C<sub>16</sub> straight chain alkyl, or—C<sub>2</sub>-C<sub>16</sub> straight chain alkylene containing not more than one double bond: and

R23, R24, and R25 are each independently hydrogen or methyl.

## 16. (Withdrawn) The method of claim 14 wherein:

R<sub>22</sub> is C<sub>1</sub>-C<sub>5</sub> straight chain alkyl, or —C<sub>2</sub>-C<sub>5</sub> straight chain alkylene containing not more than one double bond.

- 17. (Withdrawn) The method of claim 15, wherein R21 is  $-C_9$ - $C_{12}$  alkyl, and  $R_{22}$  is  $-C_1$ - $C_{12}$  alkyl.
- 18. (Withdrawn) The method of claim 15, wherein  $R_{21}$  is — $C_9$ - $C_{12}$  alkyl, and  $R_{22}$  is — $C_1$ - $C_5$  alkyl.
- 19. (Withdrawn) The method of claim 15, wherein  $R_{21}$  is — $C_9$ - $C_{12}$  alkyl, and  $R_{22}$  is — $C_8$ - $C_{12}$  alkyl.
  - 20. (Withdrawn) The method of claim 14, wherein the virus is a coronavirus.
  - 21. (Withdrawn) The method of claim 20, wherein the coronavirus is SARS-CoV.
  - 22. (Withdrawn) The method of claim 14, wherein the virus is a herpes virus.
- 23. (Withdrawn) The method of claim 22, wherein the herpes virus is varicella zoster virus.
- (Withdrawn) The method of claim 22, wherein the herpes virus is cytomegalovirus.

- 25. (Withdrawn) The method of claim 14, wherein the host is a mammal.
- (Withdrawn) The method of claim 14, wherein the host is a human.
- 27. (Withdrawn) A method for treating a host infected with a togavirus, herpes virus or coronavirus comprising administering an anti-viral effective amount of a compound, or a pharmaceutically acceptable salt or prodrug thereof, having a structure of Formula III:

  (III)

wherein:

$$\label{eq:continuous} Y \text{ is } -S--, -O--, -NH--, -N(CH_3)--, -NHC(O)--, \text{ or } -N(CH_3)C(O)--; \\ R_1 \text{ is } C_1-C_{18} \text{ alkyl, } C_2-C_{18} \text{ alkenyl, } C_2-C_{18} \text{ alkynyl or aryl;} \\$$

X is a covalent bond or methylene that is optionally substituted with hydroxyl, C<sub>i</sub>-

J is  $C_1$ - $C_4$  alkyl optionally substituted one to three times with methyl or ethyl; and  $R_2$ ,  $R_3$ , and  $R^4$  are H or  $C_1$ - $C_3$  alkyl;

optionally with a pharmaceutically acceptable carrier or diluent.

- 28. (Withdrawn) The method of claim 27 wherein: Y is -NHC(O)—;  $R_1$  is  $-C_{O}$ - $C_{18}$  alkyl; X is -CH-O—( $C_1-C_{18}$  alkyl) or -CH-O—( $C_1-C_{18}$  alkenyl); J is  $-CH_2CH_2$ —; and  $R_2$ ,  $R_3$ , and  $R_4$  are each methyl.
- 29. (Withdrawn) The method of claim 28, wherein X is —CH—O—(C<sub>1</sub>-C<sub>5</sub> alkyl) or —CH—O—(C<sub>2</sub>-C<sub>5</sub> alkenyl).

- 30. (Withdrawn) The method of claim 28, wherein  $R_1$  is — $C_8$ - $C_{12}$  alkyl and X is —CH—O— $(C_1$ - $C_5$  alkyl) or —CH—O— $(C_2$ - $C_5$  alkenyl).
- 31. (Withdrawn) The method of claim 28, wherein  $R_1$  is  $-C_8$ - $C_{12}$  alkyl and X is  $-CH-O-(C_8-C_{12}$  alkyl) or  $-CH-O-(C_8-C_{12}$  alkenyl).
  - 32. (Withdrawn) The method of claim 27, wherein the virus is a coronavirus.
  - 33. (Withdrawn) The method of claim 32, wherein the coronavirus is SARS-CoV.
  - 34. (Withdrawn) The method of claim 27, wherein the virus is a herpes virus.
- 35. (Withdrawn) The method of claim 34, wherein the herpes virus is varicella zoster virus.
- 36. (Withdrawn) The method of claim 34, wherein the herpes virus is cytomegalovirus.
  - 37. (Withdrawn) The method of claim 27, wherein the host is a mammal.
  - 38. (Withdrawn) The method of claim 27, wherein the host is a human.
- 39. (Withdrawn) A method for treating a host infected with a coronavirus, herpes virus or togavirus, comprising administering an anti-viral effective amount of a compound, or a pharmaceutically acceptable salt or prodrug thereof, having a structure of Formula IV:

wherein:

R<sub>1</sub> is a C<sub>6</sub>-C<sub>18</sub> alkyl, C<sub>6</sub>-C<sub>18</sub> alkenyl, or C<sub>6</sub>-C<sub>18</sub> alkynyl that is optionally substituted from 1 to 5 times with -- OH, -- COOH, oxo, amino, or arvl:

R2 is a C1-C14 alkyl, C2-C14 alkenyl, or C2-C14 alkynyl that is optionally substituted from 1 to 5 times with -OH, -COOH, oxo, amino, or arvl;

R<sub>6</sub> is a C<sub>2</sub>-C<sub>6</sub> alkyl; C<sub>2</sub>-C<sub>6</sub> alkenyl, or C<sub>2</sub>-C<sub>6</sub> alkynyl; and

R<sub>1</sub>, R<sub>4</sub>, and R<sub>5</sub> are independently methyl or ethyl, or R<sub>3</sub> and R<sup>4</sup> together form an aliphatic or heterocyclic ring having five or six ring atoms and Rs is methyl or ethyl; optionally with a pharmaceutically acceptable carrier or diluent.

40. (Withdrawn) The method of claim 39 wherein

R2 is C1-C14 alkyl, C2-C14 alkenyl, or C2-C14 alkenyl;

- R6 is CH2CH2; and R3, R4, and R5 are each independently CH3.
- 41. (Withdrawn) The method of claim 40, wherein R<sub>2</sub> is -C<sub>1</sub>-C<sub>5</sub> alkyl or -C<sub>1</sub>-C<sub>5</sub> alkenyl.
- 42. (Withdrawn) The method of claim 40, wherein R1 is -C8-C12 alkyl and R2 is -C<sub>8</sub>-C<sub>12</sub> alkvl.

- (Withdrawn) The method of claim 40, wherein R<sub>1</sub> is —C<sub>8</sub>-C<sub>12</sub> alkyl and R<sub>2</sub> is —C<sub>1</sub>-C<sub>5</sub> alkyl.
- 44. (Withdrawn) The method of claim 40, wherein  $R^1$  is — $C_{8^{-}}C_{12}$  alkyl and  $R_2$  is — $C_{8^{-}}C_{12}$  alkyl.
- 45. (Withdrawn) The method of claim 39, wherein: X is —NHC(O)—, —N(CH<sub>3</sub>)C(O)—, —C(O)NH—, or —C(O)N(CH<sub>3</sub>)—; and Y is —O—, —NH—, or —N(CH<sub>3</sub>)—.
  - 46. (Withdrawn) The method of claim 39, wherein the virus is a coronavirus.
  - 47. (Withdrawn) The method of claim 46, wherein the coronavirus is SARS-CoV.
  - 48. (Withdrawn) The method of claim 39, wherein the virus is a herpes virus.
- (Withdrawn) The method of claim 48, wherein the herpes virus is varicella zoster virus.
- (Withdrawn) The method of claim 47, wherein the herpes virus is cytomegalovirus.
  - 51. (Withdrawn) The method of claim 39, wherein the host is a mammal.
  - 52. (Withdrawn) The method of claim 39, wherein the host is a human.
- 53. (Withdrawn) A method for treating a host infected with a coronavirus, herpes virus or togavirus, comprising administering an anti-viral effective amount of a compound, or a pharmaceutically acceptable salt or prodrug thereof, having a structure of Formula AA-1:

$$\begin{array}{c|c} X^{1}R^{1} & & & (AA-1) \\ \hline X^{2}R^{2} & O & & & \\ O & & P & O & R^{6} - N^{4} - R^{4} \\ \hline O & & & R^{5} \end{array}$$

wherein:

$$R^2$$
 is — $C_1$ - $C_{22}$  alkyl;

R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> are methyl.

- 54. (Withdrawn) The method of claim 53, wherein:
- $R^{1} \text{ is } -\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{3}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{3}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{3}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}\text{CH}_{2}, -\text{CH}_{2}, -\text{CH}_{$
- (Withdrawn) The method of claim 53, wherein the host is infected with a coronavirus.
  - 56. (Withdrawn) The method of claim 55, wherein the coronavirus is SARS-CoV.
  - (Withdrawn) The method of claim 56, wherein:
     R<sup>1</sup> is —(CH<sub>2</sub>)<sub>0</sub>CH<sub>3</sub>-, —(CH<sub>2</sub>)<sub>10</sub>CH<sub>3</sub>, or —(CH<sub>2</sub>)<sub>11</sub>CH<sub>3</sub>; and
     R<sup>2</sup> is —CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>. —CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>.
  - 58. (Withdrawn) The method of claim 56, wherein the compound is:

$$\begin{array}{c} O \\ CH_2-NH-C-(CH_2)_{10}CH_3 \\ CH-O-(CH_2)_3CH_3 \\ O \\ CH_2-O-P-O-CH_2CH_2-N^\dagger-CH_3 \\ O \\ CH_3 \\ CH_3 \\ CH_3 \\ \end{array}$$

- (Withdrawn) The method of claim 53, wherein the host is infected with a herpes virus.
- 60. (Withdrawn) The method of claim 59, wherein the herpes virus is varicella zoster virus.
- $\label{eq:continuous} \begin{array}{ll} 61. & \text{(Withdrawn) The method of claim 60, wherein: } R^1 \text{ is } -\text{(CH}_2)_7 \text{CH}_3\text{-} \text{,} \\ -\text{(CH}_2)_8 \text{CH}_3, \text{ or } -\text{(CH}_2)_9 \text{CH}_3, \text{ } R^2 \text{ is } -\text{(CH}_2)_9 \text{CH}_3, \text{ } -\text{(CH}_2)_{10} \text{CH}_3, \text{ or } -\text{(CH}_2)_{11} \text{CH}_3; \\ \end{array}$ 
  - 62. (Withdrawn) The method of claim 60, wherein the compound is:

 (Withdrawn) The method of claim 59, wherein the herpes virus is cytomegalovirus.

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- 64. (Withdrawn) The method of claim 1, wherein the virus is a togavirus.
- 65. (Previously presented) The method of claim 1, wherein the compound is administered orally, by inhalation, intravenously, parenterally, intradermally, subcutaneously or topically.